

Secondary Smelting, Refining, and Alloying of Nonferrous Metal (Except Copper and Aluminum): 2002

Issued January 2005

EC02-311-331492 (RV)

2002 Economic Census

Manufacturing

Industry Series



U S C E N S U S B U R E A U

Helping You Make Informed Decisions

U.S. Department of Commerce
Economics and Statistics Administration
U.S. CENSUS BUREAU



CONTENTS

Introduction to the Economic Census	v
Manufacturing	ix
Tables	
1. Historical Statistics for the Industry: 2002 and Earlier Years ...	1
2. Industry Statistics for Selected States: 2002	2
3. Detailed Statistics by Industry: 2002	3
4. Industry Statistics by Employment Size: 2002.....	4
5. Industry Statistics by Primary Product Class Specialization: 2002	5
6a. Products Statistics: 2002 and 1997	6
6b. Product Class Shipments for Selected States: 2002 and 1997 .	8
7. Materials Consumed by Kind: 2002 and 1997.....	9
Appendixes	
A. Explanation of Terms	A-1
B. NAICS Codes, Titles, and Descriptions	B-1
C. Methodology.....	C-1
D. Geographic Notes	--
E. Metropolitan and Micropolitan Statistical Areas	--
F. Comparability of Product Classes and Product Codes: 2002 to 1997.....	F-1

-- Not applicable for this report.

Table 1. Historical Statistics for the Industry: 2002 and Earlier Years

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry and year ¹	Com-panies ²	All estab-lish-ments ³	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)	
			Number ⁴	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)					
331492, Secondary smelting, refining, and alloying of nonferrous metal (except copper and aluminum)	2002..	211	236	9 931	421 676	6 987	14 218	268 334	1 122 789	1 610 836	2 795 972	'68 559
	2001..	N	N	9 603	381 476	6 945	14 757	239 651	1 020 900	1 766 620	2 765 807	75 826
	2000..	N	N	10 338	411 216	7 473	15 859	260 056	1 141 160	1 760 915	2 913 926	86 548
	1999..	N	N	10 013	400 912	7 427	15 794	258 518	1 219 523	1 749 065	2 875 160	98 738
	1998..	N	N	10 963	415 282	8 008	17 174	265 052	1 204 278	2 014 174	3 222 445	109 074
	1997..	233	249	11 527	423 184	8 341	17 396	269 268	1 208 773	2 012 631	3 227 786	121 344

¹Statistics presented for years ending in 2 and 7 are census data. Interim census years are derived in a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures (ASM).

²For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

³Includes establishments with payroll at any time during the year.

⁴Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 2. Industry Statistics for Selected States: 2002

[States that are a disclosure or with less than 100 employees are not shown. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

Industry and geographic area	E ¹	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
		Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)				
331492, Secondary smelting, refining, and alloying of nonferrous metal (except copper and aluminum)												
United States	1	236	99	9 931	421 676	6 987	14 218	268 334	1 122 789	1 610 836	2 795 972	68 559
Alabama	—	6	5	898	33 657	716	1 654	22 863	86 030	121 608	208 641	4 197
California	2	24	8	1 027	42 941	692	1 479	27 174	125 883	198 907	324 630	11 093
Florida	—	5	3	135	6 293	70	151	2 514	16 078	3 613	19 691	743
Massachusetts	—	8	4	581	31 942	289	560	15 451	3 905	182 256	195 788	4 345
Michigan	1	9	6	333	15 927	251	484	10 862	51 543	64 609	116 536	3 744
New Jersey	—	11	7	382	17 796	191	387	8 174	47 959	112 007	176 697	2 445
New York	2	19	8	828	33 886	560	1 108	19 506	72 478	184 847	260 683	2 647
Ohio	3	17	9	578	26 475	376	830	14 915	88 004	48 308	141 688	8 823
Pennsylvania	—	36	16	2 305	100 518	1 759	3 229	73 501	231 719	305 228	553 445	12 271
Rhode Island	1	10	4	186	9 109	101	206	3 865	86 981	41 499	130 832	701

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

²Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

Table 3. Detailed Statistics by Industry: 2002

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Item	Value
331492, Secondary smelting, refining, and alloying of nonferrous metal (except copper and aluminum)	
Companies ¹	number.. 211
All establishments ²	number.. 236
Establishments with 1 to 19 employees	number.. 137
Establishments with 20 to 99 employees	number.. 72
Establishments with 100 employees or more	number.. 27
All employees ³	number.. 9 931
Total compensation	\$1,000.. 533 316
Annual payroll	\$1,000.. 421 676
Total fringe benefits	\$1,000.. 111 640
Production workers, average for year	number.. 6 987
Production workers on March 12	number.. 6 836
Production workers on May 12	number.. 7 046
Production workers on August 12	number.. 7 051
Production workers on November 12	number.. 6 995
Production worker hours	1,000.. 14 218
Production worker wages	\$1,000.. 268 334
Total cost of materials	\$1,000.. 1 610 836
Materials, parts, containers, packaging, etc., used	\$1,000.. 1 359 390
Resales	\$1,000.. 133 392
Purchased fuels	\$1,000.. 39 243
Purchased electricity	\$1,000.. 45 573
Contract work	\$1,000.. 33 238
Quantity of electricity purchased for heat and power	1,000 kWh.. 763 712
Quantity of electricity generated less sold for heat and power	1,000 kWh.. -
Total value of shipments	\$1,000.. 2 795 972
Primary products value of shipments	\$1,000.. 2 338 216
Secondary products value of shipments	\$1,000.. 185 362
Total miscellaneous receipts	\$1,000.. 272 394
Value of resales	\$1,000.. 139 395
Contract receipts	\$1,000.. 111 038
Other miscellaneous receipts	\$1,000.. 21 961
Primary products specialization ratio	percent.. 93
Value of primary products shipments made in all industries	\$1,000.. 2 453 978
Value of primary products shipments made in this industry	\$1,000.. 2 338 216
Value of primary products shipments made in other industries	\$1,000.. 115 762
Coverage ratio	percent.. 95
Value added	\$1,000.. 1 122 789
Total inventories, beginning of year	\$1,000.. 481 889
Finished goods inventories	\$1,000.. 220 270
Work-in-process inventories	\$1,000.. 142 077
Materials and supplies inventories	\$1,000.. 119 542
Total inventories, end of year	\$1,000.. 409 941
Finished goods inventories	\$1,000.. 177 789
Work-in-process inventories	\$1,000.. 122 211
Materials and supplies inventories	\$1,000.. 109 941
Gross value of depreciable assets (acquisition costs) at beginning of year	\$1,000.. [†] 1 322 649
Total capital expenditures (new and used)	\$1,000.. [†] 68 559
Buildings and other structures (new and used)	\$1,000.. [†] 7 946
Machinery and equipment (new and used)	\$1,000.. [†] 60 613
Automobiles, trucks, etc., for highway use	\$1,000.. [†] 2 502
Computers and peripheral data processing equipment	\$1,000.. [†] 3 524
All other expenditures for machinery and equipment	\$1,000.. [†] 54 587
Total retirements	\$1,000.. [†] 34 769
Gross value of depreciable assets at end of year	\$1,000.. [†] 1 356 439
Depreciation charges during year	\$1,000.. 78 416
Total rental payments	\$1,000.. 28 445
Buildings and other structures	\$1,000.. 13 180
Machinery and equipment	\$1,000.. 15 265
Total other expenses ⁴	\$1,000.. 120 678
Response coverage ratio ⁵	percent.. 67
Repair and maintenance services of buildings and/or machinery ⁴	\$1,000.. 22 658
Communications services ⁴	\$1,000.. 2 794
Legal services ⁴	\$1,000.. 1 853
Accounting, auditing, and bookkeeping services ⁴	\$1,000.. 936
Advertising and promotional services ⁴	\$1,000.. 816
Expensed computer hardware and supplies and purchased computer services ⁴	\$1,000.. 664
Refuse removal (including hazardous waste) services ⁴	\$1,000.. 5 235
Management consulting and administrative services ⁴	\$1,000.. 3 055
Taxes and license fees ⁴	\$1,000.. 4 010
All other expenses ⁴	\$1,000.. 78 657

¹For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

²Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

⁴Based on 2002 Annual Survey of Manufactures (ASM) sample data.

⁵A response coverage ratio is derived for this item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight) for those Annual Survey of Manufactures (ASM) establishments that reported to the weighted total employment for all ASM establishments classified in this industry.

Note 1: The amounts shown for other expenses reflect only those services that establishments purchase from other companies.

Note 2: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 4. Industry Statistics by Employment Size: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Employment size class	E ¹	All establishments ²	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)				
331492, Secondary smelting, refining, and alloying of nonferrous metal (except copper and aluminum)											
All establishments	1	236	9 931	421 676	6 987	14 218	268 334	1 122 789	1 610 836	2 795 972	'68 559
Establishments with—											
1 to 4 employees	8	71	c	D	D	D	D	D	D	D	D
5 to 9 employees	5	29	188	7 704	130	254	5 275	34 989	24 003	59 057	'702
10 to 19 employees	3	37	558	21 666	400	843	14 562	61 258	82 621	143 275	'6 013
20 to 49 employees	1	47	1 511	63 411	951	1 952	32 238	341 995	293 852	642 131	'13 417
50 to 99 employees	1	25	1 810	79 123	1 147	2 136	39 025	199 921	367 489	569 339	'10 487
100 to 249 employees	—	20	2 851	122 288	2 054	4 353	81 955	246 432	475 794	755 970	'24 013
250 to 499 employees	—	6	1 930	79 208	1 404	3 060	54 078	160 082	270 992	439 822	'9 139
500 to 999 employees	—	1	f	D	D	D	D	D	D	D	D
1,000 to 2,499 employees	—	—	—	—	—	—	—	—	—	—	—
2,500 employees or more	—	—	—	—	—	—	—	—	—	—	—
Administrative records ⁴	9	75	238	9 143	174	323	6 562	25 381	35 383	60 273	'910

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

²Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

⁴Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. Data are also included in respective size classes shown.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 5. Industry Statistics by Primary Product Class Specialization: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry or product class code	Industry or primary product class	All establishments ¹	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number ²	Payroll (\$1,000)	Number ²	Hours (1,000)	Wages (\$1,000)				
331492	Secondary smelting, refining, and alloying of nonferrous metal (except copper and aluminum)	236	9 931	421 676	6 987	14 218	268 334	1 122 789	1 610 836	2 795 972	'68 559
3314921	Other nonferrous metal powders, paste, and flakes	60	4 379	201 046	3 072	6 020	128 080	511 362	685 737	1 224 677	'36 520
3314927	Secondary smelting, refining, and alloying of zinc	6	239	9 637	159	302	4 676	29 458	151 696	181 600	'795
3314929	Secondary precious metals and precious metal alloys	8	723	32 500	405	788	14 473	90 297	199 004	293 000	'6 523
331492B	All other miscellaneous secondary nonferrous metals	35	3 170	121 957	2 341	5 143	83 761	368 722	467 825	861 173	'11 963

¹Includes establishments with payroll at any time during the year.

²Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 6a. Products Statistics: 2002 and 1997

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Product code	Product	Number of companies with shipments of \$100,000 or more	Quantity of production for all purposes	Product shipments	
				Quantity	Value (\$1,000)
331492	Secondary smelting, refining, and alloying of nonferrous metal (except copper and aluminum)	2002.. N	X	X	2 453 978
	..... 1997.. N		X	X	3 079 695
3314921	Other nonferrous metal powders, paste, and flakes	2002.. N	X	X	1 013 528
	..... 1997.. N		X	X	963 564
33149211	Secondary nickel-cobalt-base superalloy metal powders, paste, and flakes	2002.. N	X	X	208 674
	..... 1997.. N		X	X	114 616
3314921101	Secondary nickel-cobalt-base superalloy metal powders, paste, and flakes	2002.. 18	X	S	208 674
	..... mil lb. 1997.. 12		X	*21.6	114 616
33149212	Tungsten and tungsten-base alloy powders, paste, and flakes	2002.. N	X	X	158 382
	..... 1997.. N		X	X	183 780
3314921206	Tungsten and tungsten-base alloy powders, paste, and flakes	2002.. 8	X	S	158 382
	..... mil lb. 1997.. 6		X	*24.2	183 780
33149215	Other primary nonferrous metal powders, paste, and flakes	2002.. N	X	X	643 797
	..... 1997.. N		X	X	N
3314921519	Molybdenum, titanium and tantalum powders, paste, and flakes	2002.. 6	X	X	131 609
	..... 1997.. N		X	X	N
3314921526	Secondary precious metal and precious-metal-base alloy powders, paste, and flakes (gold, silver, platinum, etc.)	2002.. 20	X	S	244 441
	..... 1,000 troy ounces. 1997.. N		X	N	N
3314921531	Other nonferrous metal powders, paste, and flakes	2002.. 37	X	X	267 747
	..... 1997.. N		X	X	N
3314921Y	Other nonferrous metal powders, paste, and flakes, nsk	2002.. N	X	X	2 675
	..... 1997.. N		X	X	-
3314921YVV	Other nonferrous metal powders, paste, and flakes, nsk	2002.. N	X	X	2 675
	..... 1997.. N		X	X	-
3314927	Secondary smelting, refining, and alloying of zinc	2002.. N	X	X	169 477
	..... 1997.. N		X	X	303 964
33149271	Refined secondary unalloyed zinc, including all ASTM specification zinc	2002.. N	X	X	D
	..... 1997.. N		X	X	80 738
3314927101	Refined secondary unalloyed zinc, including all ASTM specification zinc ¹	2002.. 2	X	X	D
	..... 1997.. 5		X	X	80 738
33149272	Refined secondary zinc-base alloys	2002.. N	X	X	D
	..... 1997.. N		X	X	223 226
3314927206	Refined secondary zinc-base alloys ²	2002.. 5	X	D	D
	..... 1,000 s tons. 1997.. 9		X	S	223 226
3314927Y	Secondary smelting, refining, and alloying of zinc, nsk	2002.. N	X	X	31 891
	..... 1997.. N		X	X	-
3314927YVV	Secondary smelting, refining, and alloying of zinc, nsk	2002.. N	X	X	31 891
	..... 1997.. N		X	X	-
3314929	Secondary precious metals and precious metal alloys	2002.. N	X	X	332 934
	..... 1997.. N		X	X	466 533
33149291	Secondary gold and gold alloys	2002.. N	X	X	151 779
	..... 1997.. N		X	X	234 424
3314929101	Secondary gold and gold alloys ³	2002.. 9	X	X	151 779
	..... 1997.. 18		X	X	234 424
33149292	Secondary silver, silver alloys, platinum, and platinum alloys	2002.. N	X	X	139 167
	..... 1997.. N		X	X	232 109
3314929206	Secondary silver and silver alloys ⁴	2002.. 6	X	X	19 189
	..... 1997.. 15		X	X	129 030
3314929211	Secondary platinum and platinum alloys, including platinum-group metals ⁵	2002.. 8	X	X	119 978
	..... 1997.. 9		X	X	103 079
3314929Y	Secondary precious metals and precious metal alloys, nsk	2002.. N	X	X	41 988
	..... 1997.. N		X	X	-
3314929YVV	Secondary precious metals and precious metal alloys, nsk	2002.. N	X	X	41 988
	..... 1997.. N		X	X	-
331492B	All other miscellaneous secondary nonferrous metals	2002.. N	X	X	788 129
	..... 1997.. N		X	X	N
331492B1	Secondary unalloyed lead (pig, ingots, shot, etc.)	2002.. N	X	X	300 876
	..... 1997.. N		X	X	N
331492B101	Secondary unalloyed lead (pig, ingots, shot, etc.) ⁶	2002.. 10	X	X	300 876
	..... 1997.. N		X	X	N
331492B2	Secondary antimonial lead- and tin-base alloys	2002.. N	X	X	167 711
	..... 1997.. N		X	X	N
331492B208	Secondary lead- and tin-base alloy antimonial lead and babbitt metal ⁷	2002.. 6	X	X	110 224
	..... 1997.. N		X	X	N
331492B216	Secondary lead- and tin-base alloy solder ⁸	2002.. 6	X	X	22 718
	..... 1997.. N		X	X	N
331492B221	Other secondary lead- and tin-base alloys, including type metal ⁹	2002.. 5	X	X	34 769
	..... 1997.. N		X	X	N
331492B3	Other secondary nonferrous additive alloys	2002.. N	X	X	244 096
	..... 1997.. N		X	X	N
331492B301	Secondary nonferrous superalloys (superior heat and creep resistant alloys) ¹⁰	2002.. 3	X	X	D
	..... 1997.. N		X	X	N
331492B313	Other secondary refined nonferrous metals and alloys (including nickel, tin, cadmium, antimony, cobalt, molybdenum, titanium sponge, etc.) ¹¹	2002.. 24	X	X	D
	..... 1997.. N		X	X	N
331492B4	Other secondary nonferrous products made in electric and other furnaces	2002.. N	X	X	75 446
	..... 1997.. N		X	X	N
331492B411	Other secondary nonferrous products made in electric and other furnaces	2002.. 6	X	X	75 446
	..... 1997.. N		X	X	N
331492BY	All other miscellaneous secondary nonferrous metals, nsk	2002.. N	X	X	-
	..... 1997.. N		X	X	N
331492BYVV	All other miscellaneous secondary nonferrous metals, nsk	2002.. N	X	X	-

See footnotes at end of table.

Table 6a. Products Statistics: 2002 and 1997—Con.

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Product code	Product	Number of companies with shipments of \$100,000 or more	Quantity of production for all purposes	Product shipments	
				Quantity	Value (\$1,000)
331492	Secondary smelting, refining, and alloying of nonferrous metal (except copper and aluminum)—Con.				
331492B	All other miscellaneous secondary nonferrous metals—Con.				
331492BY	All other miscellaneous secondary nonferrous metals, nsk—Con.				
331492BYWV	All other miscellaneous secondary nonferrous metals, nsk—Con.	1997..	N	X	X
					N
331492W	Secondary smelting, refining, and alloying of nonferrous metal (except copper and aluminum), nsk, total	2002..	N	X	X
		1997..	N	X	X
					149 910
331492WY	Secondary smelting, refining, and alloying of nonferrous metal (except copper and aluminum), nsk, total	2002..	N	X	X
		1997..	N	X	X
					149 910
331492WYWW	Secondary smelting, refining, and alloying of nonferrous metal (except copper and aluminum), nsk, for nonadministrative-record establishments	2002..	N	X	X
		1997..	N	X	X
					92 212
331492WYWY	Secondary smelting, refining, and alloying of nonferrous metal (except copper and aluminum), nsk, for administrative-record establishments	2002..	N	X	X
		1997..	N	X	X
					127 555
					57 698
					92 245

¹This product code is primary to more than one industry. See industry 331419, product code 3314193101.
²This product code is primary to more than one industry. See industry 331419, product code 3314193111.
³This product code is primary to more than one industry. See industry 331419, product code 3314197101.
⁴This product code is primary to more than one industry. See industry 331419, product code 3314197206.
⁵This product code is primary to more than one industry. See industry 331419, product code 3314197311.
⁶This product code is primary to more than one industry. See industries 331419 and 331492, product codes 331419A101, 331419A103, 331419A121, 331419A131, 331492B208, 331492B216, 331492B221, 331492B301, and 331492B313.
⁷This product code is primary to more than one industry. See industries 331419 and 331492, product codes 331419A101, 331419A103, 331419A121, 331419A131, 331492B101, 331492B216, 331492B221, 331492B301, and 331492B313.
⁸This product code is primary to more than one industry. See industries 331419 and 331492, product codes 331419A101, 331419A103, 331419A121, 331419A131, 331492B101, 331492B208, 331492B221, 331492B301, and 331492B313.
⁹This product code is primary to more than one industry. See industries 331419 and 331492, product codes 331419A101, 331419A103, 331419A121, 331419A131, 331492B101, 331492B208, 331492B216, 331492B301, and 331492B313.
¹⁰This product code is primary to more than one industry. See industries 331419 and 331492, product codes 331419A101, 331419A103, 331419A121, 331419A131, 331492B101, 331492B208, 331492B216, 331492B221, and 331492B313.
¹¹This product code is primary to more than one industry. See industries 331419 and 331492, product codes 331419A101, 331419A103, 331419A121, 331419A131, 331492B101, 331492B208, 331492B216, 331492B221, and 331492B301.

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 6b. Product Class Shipments for Selected States: 2002 and 1997

[Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in Table 2. Also, product classes are not shown if they are miscellaneous or "not specified by kind" classes. Statistics for some states are withheld because they are either less than \$2 million in product class shipments or they disclose data for individual companies in 2002. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographic definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS product class code	Product class and geographic area	Value of product shipments (\$1,000)	
3314921	Other nonferrous metal powders, paste, and flakes		
	United States	2002.. 1 013 528 1997.. 963 564	
	California	2002.. 53 584 1997.. 92 473	
	Michigan	2002.. 56 565 1997.. 38 332	
	New Jersey	2002.. 47 852 1997.. 40 403	
	New York	2002.. 43 809 1997.. 56 727	
	Ohio	2002.. 24 037 1997.. 21 571	
	Pennsylvania	2002.. 210 238 1997.. 243 492	
	Rhode Island	2002.. 84 479 1997.. N	
	3314927	Secondary smelting, refining, and alloying of zinc	
		United States	2002.. 169 477 1997.. 303 964
3314929	Secondary precious metals and precious metal alloys		
	United States	2002.. 332 934 1997.. 466 533	
	Pennsylvania	2002.. 46 562 1997.. N	
331492B	All other miscellaneous secondary nonferrous metals		
	United States	2002.. 788 129 1997.. N	
	California	2002.. 136 809 1997.. N	
	Ohio	2002.. 36 515 1997.. N	
	Pennsylvania	2002.. 105 042 1997.. N	

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

Table 7. Materials Consumed by Kind: 2002 and 1997

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Material code	Material consumed	Quantity	Delivered cost (\$1,000)
331492	Secondary smelting, refining, and alloying of nonferrous metal (except copper and aluminum)		
0090001	Total materials	X	1 359 390
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	1 765 402
	.....2002..	X	D
	.....1997..	X	N
33141103	Refined unalloyed copper (cathodes, ingots, cakes, slabs, etc.), including blister and anode copper	D	D
	.....1,000 s tons ..2002..	S	38
	.....1997..		
33141923	Lead-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	D
	.....2002..	X	3 765
	.....1997..		
33149105	Zinc and zinc-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	997.6	77 223
	.....1,000 s tons ..2002..	79.5	117 992
	.....1997..	X	6 539
33141938	Tin shapes and forms (excluding castings, forgings, and fabricated metal products)	X	N
	.....2002..	X	
	.....1997..		
33141902	Precious metals and precious metal alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	X	60 276
	.....2002..	X	N
	.....1997..		
33141929	All other nonferrous metal shapes and forms (excluding aluminum, refined unalloyed copper, precious metal, lead, tin, and zinc-base alloy castings, forgings, and fabricated metal products)	S	59 633
	..... mil lb ..2002..	S	62 253
	.....1997..	X	56 868
21220015	All other nonferrous metal ores and concentrates	X	16 858
	.....2002..		
	.....1997..		
00190034	Copper and copper-base alloy scrap (excluding home scrap)	X	D
	.....2002..	X	N
	.....1997..	X	142 772
00190025	Lead and lead-base alloy scrap	X	285 554
	.....2002..	X	60 709
	.....1997..	X	42 908
00190026	Zinc and zinc-base alloy scrap (including drosses and skimmings)		
	.....2002..	X	97 326
	.....1997..	X	S
00190051	Precious metal and precious metal alloy scrap	X	158 380
	.....2002..	X	166 503
	.....1997..	X	423 545
00190052	All other nonferrous metal and metal-base alloy scrap	X	650 270
	.....2002..	X	144 174
	.....1997..	X	272 546
00970099	All other materials and components, parts, containers, and supplies		
	.....2002..		
	.....1997..		
00971000	Materials, ingredients, containers, and supplies, nsk		
	.....2002..		
	.....1997..		

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.